



25775-czazal.ST25
SEQUENCE LISTING

<110> Vogel et al., Tikva

<120> FIBRIN BINDING DOMAIN POLYPEPTIDES AND USES AND METHODS OF PRODUCING SAME

<130> 25775-CZ-AZ-A

<140> US 09/492,971

<141> 2000-01-27

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<170> PatentIn version 3.1

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Ile Asn Gln Gln Trp Glu Arg Thr Tyr Leu Gly Asn Val Leu Val Cys
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Thr Cys Tyr Gly Gly Ser Arg Gly Phe Asn Cys Glu Ser Lys Pro Glu
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Ala Glu Glu Thr Cys Phe Asp Lys Tyr Thr Gly Asn Thr Tyr Arg Val
65 70 75 80

Gly Asp Thr Tyr Glu Arg Pro Lys Asp Ser Met Ile Trp Asp Cys Thr
85 90 95

Cys Ile Gly Ala Gly Arg Gly Arg Ile Ser Cys Thr Ile Ala Asn Arg
100 105 110

Cys His Glu Gly Gln Ser Tyr Lys Ile Gly Asp Thr Trp Arg Arg
115 120 125

Pro His Glu Thr Gly Tyr Met Leu Glu Cys Val Cys Leu Gly Asn
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Gly Lys Gly Glu Trp Thr Cys Lys Pro Ile Ala Glu Lys Cys Phe Asp
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His Ala Ala Gly Thr Ser Tyr Val Val Gly Glu Thr Trp Glu Lys Pro
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Tyr Gln Gly Trp Met Met Val Asp Cys Thr Cys Leu Gly Glu Gly Ser
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Gly Arg Ile Thr Cys Thr Ser Arg Asn Arg Cys Asn Asp Gln Asp Thr
195 200 205

Arg Thr Ser Tyr Arg Ile Gly Asp Thr Trp Ser Lys Lys Asp Asn Arg
210 215 220

Gly Asn Leu Leu Gln Cys Ile Cys Thr Gly Asn Gly Arg Gly Glu Trp
225 230 235 240

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Gln Pro Pro Pro Tyr Gly His Cys Val Thr Asp Ser Gly Val Val Tyr
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Cys Thr Cys Leu Gly Asn Gly Val Ser Cys Gln Glu Thr Ala Val Thr
305 310 315 320

Gln Thr Tyr Gly Gly Asn Leu Asn Gly Glu Pro Cys Val Leu Pro Phe
325 330 335

Thr Tyr Asn Gly Arg Thr Phe Tyr Ser Cys Thr Thr Glu Gly Arg Gln
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Asp Gly His Leu Trp Cys Ser Thr Thr Ser Asn Tyr Glu Gln Asp Gln
355 360 365

Lys Tyr Ser Phe Cys Thr Asp His Thr Val Leu Val Gln Thr Gln Gly
370 375 380

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His Asn Tyr Thr Asp Cys Thr Ser Glu Gly Arg Arg Asp Asn Met Lys
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Trp Cys Gly Thr Thr Gln Asn Tyr Asp Ala Asp Gln Lys Phe Gly Phe
420 425 430

Cys Pro Met Ala Ala His Glu Glu Ile Cys Thr Thr Asn Glu Gly Val
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Met Tyr Arg Ile Gly Asp Gln Trp Asp Lys Gln His Asp Met Gly His
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Met Met Arg Cys Thr Cys Val Gly Asn Gly Arg Gly Glu Trp Thr Cys
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Tyr Asn Val Asn Asp Thr Phe His Lys Arg His Glu Glu Gly His Met
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Leu Asn Cys Thr Cys Phe Gly Gln Gly Arg Gly Arg Trp Lys Cys Asp
515 520 525

Pro Val Asp Gln Cys Gln Asp Ser Glu Thr Gly Thr Phe Tyr Gln Ile
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Gly Asp Ser Trp Glu Lys Tyr Val His Gly Val Arg Tyr Gln Cys Tyr
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Cys Tyr Gly Arg Gly Ile Gly Glu Trp His Cys Gln Pro Leu Gln Thr
565 570 575

Tyr Pro Ser Ser Gly Pro Val Glu Val Phe Ile Thr Glu Thr Pro
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Ser Gln Pro Asn Ser His Pro Ile Gln Trp Asn Ala Pro Gln Pro Ser
595 600 605

His Ile Ser Lys Tyr Ile Leu Arg Trp Arg Pro Lys Asn Ser Val Gly
610 615 620

Arg Trp Lys Glu Ala Thr Ile Pro Gly His Leu Asn Ser Tyr Thr Ile
625 630 635 640

Lys Gly Leu Lys Pro Gly Val Val Tyr Glu Gly Gln Leu Ile Ser Ile
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Gln Gln Tyr Gly His Gln Glu Val Thr Arg Phe Asp Phe Thr Thr Thr
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Pro Phe Ser Pro Leu Val Ala Thr Ser Glu Ser Val Thr Glu Ile Thr
690 695 700

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725 730 735

Tyr Leu Asp Leu Pro Ser Thr Ala Thr Ser Val Asn Ile Pro Asp Leu
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Leu Pro Gly Arg Lys Tyr Ile Val Asn Val Tyr Gln Ile Ser Glu Asp
755 760 765

Gly Glu Gln Ser Leu Ile Leu Ser Thr Ser Gln Thr Thr Ala Pro Asp
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Ala Pro Pro Asp Pro Thr Val Asp Gln Val Asp Asp Thr Ser Ile Val
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Tyr Ser Pro Ser Val Glu Gly Ser Ser Thr Glu Leu Asn Leu Pro Glu
820 825 830

Thr Ala Asn Ser Val Thr Leu Ser Asp Leu Gln Pro Gly Val Gln Tyr
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Asn Ile Thr Ile Tyr Ala Val Glu Glu Asn Gln Glu Ser Thr Pro Val
850 855 860

Val Ile Gln Gln Glu Thr Thr Gly Thr Pro Arg Ser Asp Thr Val Pro
865 870 875 880

Ser Pro Arg Asp Leu Gln Phe Val Glu Val Thr Asp Val Lys Val Thr
885 890 895

Ile Met Trp Thr Pro Pro Glu Ser Ala Val Thr Gly Tyr Arg Val Asp
900 905 910

Val Ile Pro Val Asn Leu Pro Gly Glu His Gly Gln Arg Leu Pro Ile
915 920 925

Ser Arg Asn Thr Phe Ala Glu Val Thr Gly Leu Ser Pro Gly Val Thr
930 935 940

Tyr Tyr Phe Lys Val Phe Ala Val Ser His Gly Arg Glu Ser Lys Pro
Page 9

945

950

955

960

Leu Thr Ala Gln Gln Thr Thr Lys Leu Asp Ala Pro Thr Asn Leu Gln
 965 970 975

Phe Val Asn Glu Thr Asp Ser Thr Val Leu Val Arg Trp Thr Pro Pro
 980 985 990

Arg Ala Gln Ile Thr Gly Tyr Arg Leu Thr Val Gly Leu Thr Arg Arg
 995 1000 1005

Gly Gln Pro Arg Gln Tyr Asn Val Gly Pro Ser Val Ser Lys Tyr
 1010 1015 1020

Pro Leu Arg Asn Leu Gln Pro Ala Ser Glu Tyr Thr Val Ser Leu
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Val Ala Ile Lys Gly Asn Gln Glu Ser Pro Lys Ala Thr Gly Val
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Phe Thr Thr Leu Gln Pro Gly Ser Ser Ile Pro Pro Tyr Asn Thr
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Glu Val Thr Glu Thr Thr Ile Val Ile Thr Trp Thr Pro Ala Pro
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Arg Ile Gly Phe Lys Leu Gly Val Arg Pro Ser Gln Gly Gly Glu
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Ala Pro Arg Glu Val Thr Ser Asp Ser Gly Ser Ile Val Val Ser
 1100 1105 1110

Gly Leu Thr Pro Gly Val Glu Tyr Val Tyr Thr Ile Gln Val Leu
 1115 1120 1125

Arg Asp Gly Gln Glu Arg Asp Ala Pro Ile Val Asn Lys Val Val
 1130 1135 1140

Thr Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro
 1145 1150 1155

Asp Thr Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro
 1160 1165 1170

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Gln Gly Asn Ser Leu Glu Glu Val Val His Ala Asp Gln Ser Ser
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Cys Thr Phe Asp Asn Leu Ser Pro Gly Leu Glu Tyr Asn Val Ser
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Val Tyr Thr Val Lys Asp Asp Lys Glu Ser Val Pro Ile Ser Asp
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Thr Ile Ile Pro Ala Val Pro Pro Pro Thr Asp Leu Arg Phe Thr
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1265 1270 1275

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Ala Val Val Leu Thr Asn Leu Leu Pro Gly Thr Glu Tyr Val Val
1295 1300 1305

Ser Val Ser Ser Val Tyr Glu Gln His Glu Ser Thr Pro Leu Arg
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Gly Arg Gln Lys Thr Gly Leu Asp Ser Pro Thr Gly Ile Asp Phe
1325 1330 1335

Ser Asp Ile Thr Ala Asn Ser Phe Thr Val His Trp Ile Ala Pro
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Arg Ala Thr Ile Thr Gly Tyr Arg Ile Arg His His Pro Glu His
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Phe Ser Gly Arg Pro Arg Glu Asp Arg Val Pro His Ser Arg Asn
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Ser Ile Thr Leu Thr Asn Leu Thr Pro Gly Thr Glu Tyr Val Val
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Gly Gln Gln Ser Thr Val Ser Asp Val Pro Arg Asp Leu Glu Val
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Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro
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Ala Val Thr Val Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
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Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Gly Ser Lys Ser
1460 1465 1470

Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile
1475 1480 1485

Thr Val Tyr Ala Val Thr Gly Arg Gly Asp Ser Pro Ala Ser Ser
1490 1495 1500

Lys Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys Pro Ser
1505 1510 1515

Gln Met Gln Val Thr Asp Val Gln Asp Asn Ser Ile Ser Val Lys
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Trp Leu Pro Ser Ser Ser Pro Val Thr Gly Tyr Arg Val Thr Thr
1535 1540 1545

Thr Pro Lys Asn Gly Pro Gly Pro Thr Lys Thr Lys Thr Ala Gly
1550 1555 1560

Pro Asp Gln Thr Glu Met Thr Ile Glu Gly Leu Gln Pro Thr Val
1565 1570 1575

Glu Tyr Val Val Ser Val Tyr Ala Gln Asn Pro Ser Gly Glu Ser
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Gln Pro Leu Val Gln Thr Ala Val Thr Asn Ile Asp Arg Pro Lys
1595 1600 1605

Gly Leu Ala Phe Thr Asp Val Asp Val Asp Ser Ile Lys Ile Ala
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Trp Glu Ser Pro Gln Gly Gln Val Ser Arg Tyr Arg Val Thr Tyr
 1625 1630 1635

Ser Ser Pro Glu Asp Gly Ile His Glu Leu Phe Pro Ala Pro Asp
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Gly Glu Glu Asp Thr Ala Glu Leu Gln Gly Leu Arg Pro Gly Ser
 1655 1660 1665

Glu Tyr Thr Val Ser Val Val Ala Leu His Asp Asp Met Glu Ser
 1670 1675 1680

Gln Pro Leu Ile Gly Thr Gln Ser Thr Ala Ile Pro Ala Pro Thr
 1685 1690 1695

Asp Leu Lys Phe Thr Gln Val Thr Pro Thr Ser Leu Ser Ala Gln
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Trp Thr Pro Pro Asn Val Gln Leu Thr Gly Tyr Arg Val Arg Val
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Thr Pro Lys Glu Lys Thr Gly Pro Met Lys Glu Ile Asn Leu Ala
 1730 1735 1740

Pro Asp Ser Ser Ser Val Val Val Ser Gly Leu Met Val Ala Thr
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Lys Tyr Glu Val Ser Val Tyr Ala Leu Lys Asp Thr Leu Thr Ser
 1760 1765 1770

Arg Pro Ala Gln Gly Val Val Thr Thr Leu Glu Asn Val Ser Pro
 1775 1780 1785

Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr Thr Ile Thr
 1790 1795 1800

Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Gly Phe Gln Val
 1805 1810 1815

Asp Ala Val Pro Ala Asn Gly Gln Thr Pro Ile Gln Arg Thr Ile
 1820 1825 1830

Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly

1835	1840	1845
Thr Asp Tyr Lys Ile Tyr Leu	Tyr Thr Leu Asn Asp	Asn Ala Arg
1850	1855	1860
Ser Ser Pro Val Val Ile Asp	Ala Ser Thr Ala Ile	Asp Ala Pro
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Ser Asn Leu Arg Phe Leu Ala	Thr Thr Pro Asn Ser	Leu Leu Val
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Ser Trp Gln Pro Pro Arg Ala	Arg Ile Thr Gly Tyr	Ile Ile Lys
1895	1900	1905
Tyr Glu Lys Pro Gly Ser Pro	Pro Arg Glu Val Val	Pro Arg Pro
1910	1915	1920
Arg Pro Gly Val Thr Glu Ala	Thr Ile Thr Gly Leu	Glu Pro Gly
1925	1930	1935
Thr Glu Tyr Thr Ile Tyr Val	Ile Ala Leu Lys Asn	Asn Gln Lys
1940	1945	1950
Ser Glu Pro Leu Ile Gly Arg	Lys Lys Thr Asp Glu	Leu Pro Gln
1955	1960	1965
Leu Val Thr Leu Pro His Pro	Asn Leu His Gly Pro	Glu Ile Leu
1970	1975	1980
Asp Val Pro Ser Thr Val Gln	Lys Thr Pro Phe Val	Thr His Pro
1985	1990	1995
Gly Tyr Asp Thr Gly Asn Gly	Ile Gln Leu Pro Gly	Thr Ser Gly
2000	2005	2010
Gln Gln Pro Ser Val Gly Gln	Gln Met Ile Phe Glu	Glu His Gly
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Phe Arg Arg Thr Thr Pro Pro	Thr Thr Ala Thr Pro	Ile Arg His
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Arg Pro Arg Pro Tyr Pro Pro	Asn Val Gly Gln Glu	Ala Leu Ser
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Gln Thr Thr Ile Ser Trp Ala Pro Phe Gln Asp Thr Ser Glu Tyr
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Ile Ile Ser Cys His Pro Val Gly Thr Asp Glu Glu Pro Leu Gln
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Gln Gln Arg His Lys Val Arg Glu Glu Val Val Thr Val Gly Asn
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Ser Val Asn Glu Gly Leu Asn Gln Pro Thr Asp Asp Ser Cys Phe
2135 2140 2145

Asp Pro Tyr Thr Val Ser His Tyr Ala Val Gly Asp Glu Trp Glu
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Arg Met Ser Glu Ser Gly Phe Lys Leu Leu Cys Gln Cys Leu Gly
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Phe Gly Ser Gly His Phe Arg Cys Asp Ser Ser Arg Trp Cys His
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Asp Asn Gly Val Asn Tyr Lys Ile Gly Glu Lys Trp Asp Arg Gln
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Gly Glu Asn Gly Gln Met Met Ser Cys Thr Cys Leu Gly Asn Gly
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Lys Gly Glu Phe Lys Cys Asp Pro His Glu Ala Thr Cys Tyr Asp
2225 2230 2235

Asp Gly Lys Thr Tyr His Val Gly Glu Gln Trp Gln Lys Glu Tyr
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Leu Gly Ala Ile Cys Ser Cys Thr Cys Phe Gly Gly Gln Arg Gly
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Trp Arg Cys Asp Asn Cys Arg Arg Pro Gly Gly Glu Pro Ser Pro
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Glu Gly Thr Thr Gly Gln Ser Tyr Asn Gln Tyr Ser Gln Arg Tyr
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25775-czazal.ST25

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